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	10/766,764	01/27/2004 Mengchu		Mengchu Cai	SVL920030138US1	3626	
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	INTERNAT IP LAW	NTERNATIONAL BUSINESS MACHINES CORP P LAW 55 BAILEY AVENUE , J46/G4	QUELER, ADAM M				
555 BAILEY AVENUE , J46/G4					ART UNIT	PAPER NUMBER]
	SAN JOSE CA 05141		2170				

DATE MAILED: 06/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Cumulamantal	Application No.	Applicant(s)
Supplemental	10/766,764	CAI ET AL.
Notice of Allowability	Examiner	Art Unit
	Adam M. Queler	2178
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to <i>Phone call with Janet</i>	Skafar on 6/13/2006.	
2. The allowed claim(s) is/are <u>1-4,6-14,16-24 and 26-30</u> .		:
 3. Acknowledgment is made of a claim for foreign priority unersignature a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Certified copies not received: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Certified copies not received: 2. Certified copies of the priority documents have 3. Certified copies of the priority documents have 4. Certified copies not received: 3. Certified copies of the priority documents have 4. Certified copies not received: 4. Certified copies of the priority documents have 5. National Date 1. Certified copies not received: 4. Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submined in Information number (see 37 certified copies and particular properties of the priority documents have 6. Deposit OF and/or INFORMATION about the deposit of the priority documents have 6. Deposit OF and/or INFORMATION about the deposit of the priority documents have 6. Deposit OF and/or INFORMATION about the deposit of the priority documents have 6. Deposit OF and/or INFORMATION about the deposit of the priority documents have 6. Deposit OF and/or INFORMATION about the deposit of the priority documents have 6. Deposit OF and/or INFORMATION about the deposit of the priority documents have 6. Deposit OF and/or INFORMATION about the deposit of the priority documents have 6. Deposit OF and/or INFORMATION about the deposit of the priority documents have 6. Deposit OF and/or INFORMATION about the deposit of the priority documents have 6. Deposit OF and/or INFORMATION about the deposit of the priority documents have 6. Deposit OF and 6. Deposit OF and 6. Deposit OF and 6.	e been received. be been received in Application No cuments have been received in this communication to file a reply MENT of this application. itted. Note the attached EXAMINER as reason(s) why the oath or declarate be submitted. son's Patent Drawing Review (PTO s Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL residence in the property of the property	complying with the requirements 'S AMENDMENT or NOTICE OF tion is deficient. 948) attached Office action of the back) of d). must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Da 08), 7. ☑ Examiner's Amendr	te .

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Janet Skafar on 5/86/13/2006.

The application has been amended as follows These changes are changes to the original claims and take the place of the original Examiner's Amendment:

- 1. A method of performing serialization of at least a portion of an object model comprising at least one namespace, comprising: preprocessing a query to identify any implicit no default namespaces, wherein the object model is associated with the query; searching for an ancestor namespace based on a current namespace, the ancestor namespace being associated with an ancestor prefix and an ancestor uniform resource identifier (URI), the current namespace being associated with a current prefix and current URI, such that the ancestor prefix matches the current prefix; and when the current namespace is an implicit no default namespace and the ancestor namespace is an explicit default namespace based on, at least in part, the ancestor prefix, generating a serialized namespace declaration for the current namespace.
- 2. The method of claim 1 wherein the serialized namespace declaration is a serialized XML namespace declaration.
- 3. The method of claim 1 wherein a stack stores the ancestor namespaces, and said searching searches the stack for the ancestor prefix, and further comprising: pushing the current prefix and current URI onto the stack.
- 4. The method of claim 1 further comprising: when no ancestor namespace has an ancestor prefix that matches the current prefix, or when an ancestor namespace matches the current prefix and the ancestor URI is different from the current URI, generating a serialized namespace declaration for the current namespace.
- 5 (CANCELLED)

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6. The method of claim [[5]] 1 wherein said generating generates the serialized namespace declaration when the implicit no default namespace is not a top constructor at the top query block, wherein the serialized namespace declaration is a no default namespace.

- 7. The method of claim 1 wherein the object model comprises at least one element, and a current tagging template represents the element, the tagging template having a pointer to a previous namespace declaration in an ancestor tagging template, wherein said searching searches for the ancestor namespace using the pointer.
- 8. The method of claim 7 wherein the tagging template further comprises an implicit-no-default indicator to indicate that a namespace declaration is implicit no default, and wherein said generating generates the serialized namespace declaration for the implicit no default namespace when the implicit-no-default indicator indicates that the current namespace is implicit no default.
- 9. The method of claim 1 further comprising: hashing the current prefix to an index of a hash anchor array, wherein said searching accesses the hash anchor array for the ancestor namespace.
- 10. The method of claim 1 further comprising: passing a template-chaining data structure comprising a pointer to a previous template-chaining data structure and also comprising a pointer to a namespace of a template, wherein said searching uses said template-chaining data structure to find the ancestor namespace declaration.
- 11. An article of manufacture comprising a eA computer program usable readable medium embodying one or more instructions executable by a computer for performing a method of serializing at least a portion of an object model comprising at least one namespace, the method comprising: preprocessing a query to identify any implicit no default namespaces, wherein the object model is associated with the query; searching for an ancestor namespace based on a current namespace, the ancestor namespace being associated with an ancestor prefix and an ancestor uniform resource identifier (URI), the current namespace being associated with a current prefix and current URI, such that the ancestor prefix matches the current prefix; and when the current namespace is an implicit no default namespace and the ancestor namespace is an explicit default namespace based on, at least in part, the ancestor prefix, generating a serialized namespace declaration for the current namespace.
- 12. The article of manufacture computer readable medium of claim 11 wherein the serialized namespace declaration is a serialized XML namespace declaration.
- 13. The article of manufacture computer readable medium of claim 11 wherein a stack stores the ancestor namespaces, said method further comprising: pushing the current prefix and URI onto the stack, wherein said searching searches the stack for the ancestor prefix.
- 14. The article of manufacture computer readable medium of claim 11, said method further comprising: when no ancestor namespace has an ancestor prefix that matches the current prefix, or when an ancestor namespace matches the current prefix and the ancestor URI is different from the current URI, generating a serialized namespace declaration for the current namespace [[z]].

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15. (CANCELLED)

16. The article of manufacture computer readable medium of claim 45-11 wherein said generating generates the serialized namespace declaration when the implicit no default namespace is not a top constructor at a top query block, wherein the serialized namespace declaration is a no default namespace.

17. The article of manufacture computer readable medium of claim 11 wherein the object model comprises at least one element, and a current tagging template represents the element, the tagging template having a pointer to a previous namespace declaration in an ancestor tagging template, wherein said searching searches for the ancestor namespace using the pointer.

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- 18. The article of manufacture computer readable medium of claim 17 wherein the tagging template further comprises an implicit-no-default indicator to indicate that a namespace is implicit no default, further comprising determining whether the current namespace is implicit no default based on the implicit-no-default indicator.
- 19. The article of manufacture computer readable medium of claim 11, said method further comprising: hashing the current prefix to an index of a hash anchor array, wherein said searching accesses the hash anchor array for the ancestor namespace.
- 20. The article of manufacture computer readable medium of claim 11, said method further comprising: passing a current template-chaining data structure comprising a pointer to a previous template-chaining data structure and also comprising a pointer to the namespace declaration of a template, wherein said searching uses said current template-chaining data structure to find the ancestor namespace declaration.
- 21. An apparatus for performing serialization of at least a portion of an object model comprising at least one namespace, comprising: a processor; and a memory storing one or more instructions that cause the processor to: preprocessing a query to identify any implicit no default namespaces, wherein the object model is associated with the query; search for an ancestor namespace based on a current namespace, the ancestor namespace being associated with an ancestor prefix and an ancestor uniform resource identifier (URI), the current namespace declaration being associated with a current prefix and current URI, such that the ancestor prefix matches the current prefix; and when the current namespace is an implicit no default namespace and the ancestor namespace is an explicit default namespace based on, at least in part, the ancestor prefix, generate a serialized namespace declaration for the current namespace.
- 22. The apparatus of claim 21 wherein the serialized namespace declaration is a serialized XML namespace declaration.
- 23. The apparatus of claim 21 wherein a stack stores the ancestor namespaces, and further comprising one or more instructions that: push the current prefix and URI onto the stack, wherein said one or more instructions that cause the processor to search searches the stack for the ancestor prefix.

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24. The apparatus of claim 21 further comprising one or more instructions that: when no ancestor namespace has an ancestor prefix that matches the current prefix, or when an ancestor namespace matches the current prefix and the ancestor URI is different from the current URI, generate the serialized namespace declaration for the current namespace [[5]].

25. (CANCELLED)

- 26. The apparatus of claim 21-further comprising one or more instructions that: wherein said one or more instructions that cause the processor to generate the serialized namespace declaration for are performed when the implicit no default namespace is not a top constructor at a top query block, wherein the serialized namespace declaration is no default namespace.
- 27. The apparatus of claim 21 wherein the object model comprises at least one element, and a current tagging template represents the element, the tagging template having a pointer to a previous namespace declaration in an ancestor tagging template, wherein said one or more instructions that cause the processor to search searches for the ancestor namespace using the pointer.
- 28. The apparatus of claim 27 wherein the tagging template further comprises an implicit-no-default indicator to indicate that a namespace is implicit no default, further comprising one or more instructions that: determine whether a namespace is implicit no default based on the implicit-no-default indicator.
- 29. The apparatus of claim 21 further comprising one or more instructions that: hash the current prefix to an index of a hash anchor array, wherein said searching one or more instructions that cause the processor to search accesses the hash anchor array for the ancestor namespace.
- 30. The apparatus of claim 21 further comprising one or more instructions that: pass a template-chaining data structure comprising a pointer to a previous template-chaining data structure and also comprising a pointer to the namespace of a template, wherein said searching uses-one or more instructions that cause the processor to search searches using said template-chaining data structure to find the ancestor namespace declaration.
- 2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adam M. Queler whose telephone number is (571) 272-4140. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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STEPHEN HONG

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